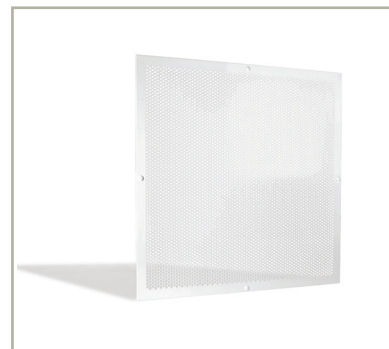
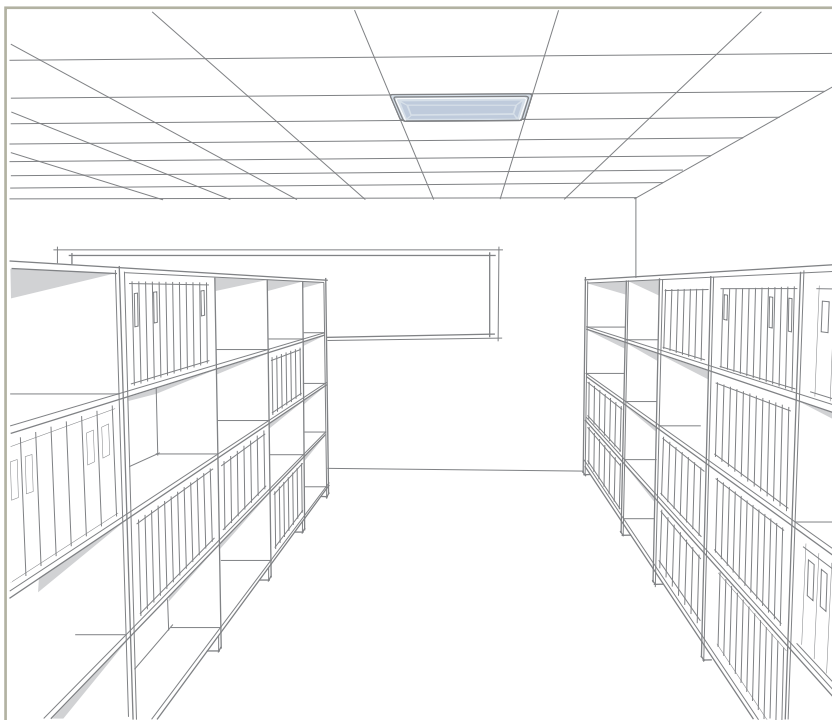


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Perforated exhaust diffuser **PSWB**

TECHNICAL DATA





PSWB perforated exhaust diffuser is recommended to be used in commercial application buildings such as offices, conference rooms, shops, etc. Face panel has dimensions of 600x600mm and replaces a tile in false ceiling.

Diffuser can be installed with SKHA connection box, which have duct connection situated at the side. Plenum box is available in two versions: with or without sound attenuation material.

High perforation rate of face panel, ensures very low sound level.

QUICK SELECTION

Panel size	Connection box size	Airflow (m³/h)	Pressure drop (Pa)	Sound pressure level L _{p10A} dB(A)
PSWB-60	SKHA-16-60	70-700	1-50	20-46
	SKHA-20-60	115-1000	1-50	20-46
	SKHA-25-60	180-2000	1-50	20-49
	SKHA-31-60	280-2700	1-50	20-49
	SKHA-40-60	450-3450	1-50	20-49

SPECIFICATIONS

- Face panel size 600x600mm
- Connection box SKHA - duct connection diameters 160-400 mm
- Face panel and connection box made of galvanized steel sheet
- High perforation rate
- Low sound level

PRODUCT CODE EXAMPLE

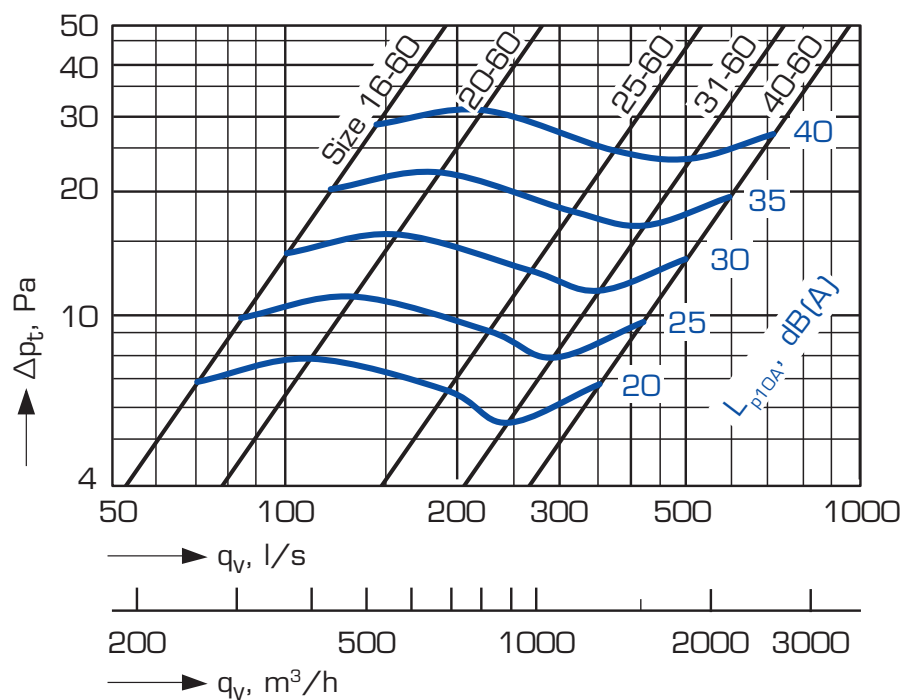
Perforated exhaust diffuser PSWB-60-1
Terminal of size 60, painted in RAL 9010 colour.

Connection box SKHA-16-60-1-0

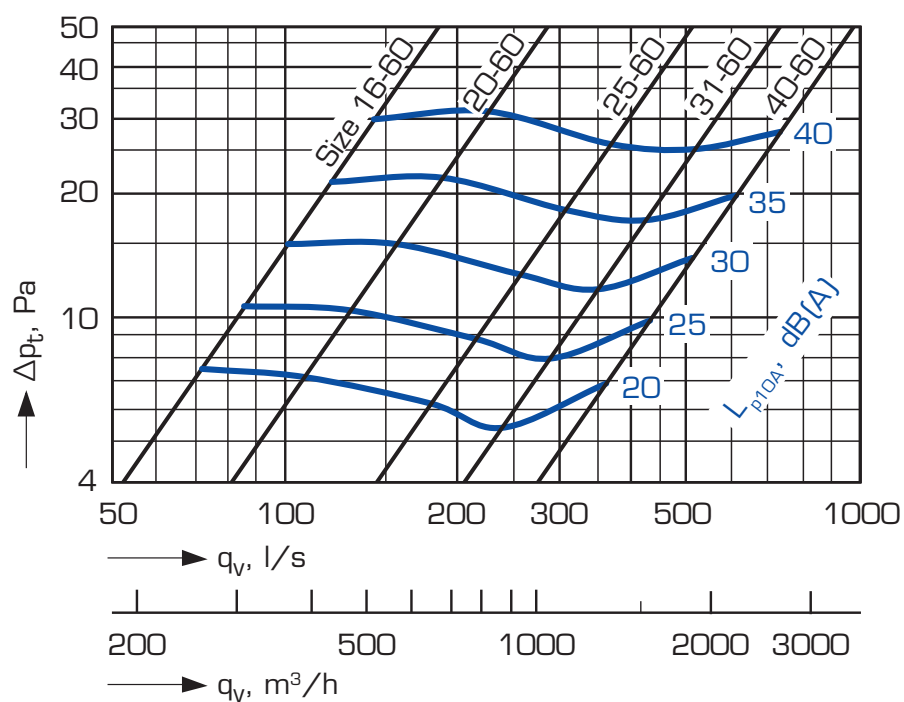
Duct connection diameter of 160 mm, face panel size 600x600mm, with sound attenuation material, without damper.

AIR FLOW, PRESSURE DROP, SOUND LEVEL

PSWB + SKHA CONNECTION BOX (WITHOUT ATTENUATION MATERIAL)



PSWB + SKHA CONNECTION BOX (WITH ATTENUATION MATERIAL)



In the above graph the sound pressure levels are indicated in dB(A) for a reference room with 10 m² Sabine room absorption, equivalent to 4 dB room attenuation.

ACOUSTICAL DATA

SOUND POWER LEVEL

PSWB + SKHA connection box (without attenuation material)

Size	Correction of sound level K_{oct} in dB for octave bands, mean frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
16-60	8	8	6	2	-2	-7	-11	-15
20-60	11	7	7	1	-3	-6	-10	-13
25-60	9	9	7	2	-3	-7	-13	-15
31-60	11	10	7	2	-3	-8	-14	-15
40-60	15	11	5	2	-2	-9	-14	-13
+/-	6	3	2	2	2	2	2	3

PSWB + SKHA connection box (with attenuation material)

Size	Correction of sound level K_{oct} in dB for octave bands, mean frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
16-60	7	7	6	2	-2	-7	-12	-15
20-60	12	6	7	2	-3	-6	-11	-13
25-60	8	8	7	3	-3	-8	-14	-15
31-60	12	10	7	2	-3	-8	-14	-15
40-60	17	11	5	2	-2	-9	-15	-13
+/-	6	3	2	2	2	2	2	3

The sound power levels for different octave bands are obtained by adding together the sound pressure level $L_{A10\phi}$ in dB(A), and the corrections K_{oct} for the octave bands in the table with the help of the following formula:

$$L_W = L_{p10A} + K_{oct}$$

Correction K_{oct} is the mean value for the range of application of PSWB.

SOUND ATTENUATION

PSWB + SKHA connection box (without attenuation material)

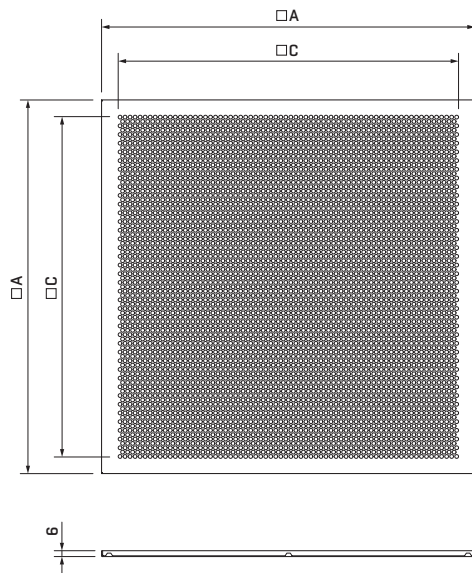
Size	Sound attenuation ΔL in dB for octave bands, mean frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
16-60	16	9	2	5	3	2	1	3
20-60	14	9	2	5	3	2	1	2
25-60	12	6	0	5	4	1	2	3
31-60	9	5	2	5	2	1	1	2
40-60	6	2	2	1	2	1	1	2
+/-	6	3	2	2	2	2	2	3

PSWB + SKHA connection box (with attenuation material)

Size	Sound attenuation ΔL in dB for octave bands, mean frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
16-60	16	10	3	6	3	3	3	4
20-60	14	9	1	6	3	2	3	4
25-60	12	6	0	6	4	3	4	4
31-60	10	4	1	5	3	3	4	4
40-60	8	3	3	2	4	3	5	3
+/-	6	3	2	2	2	2	2	3

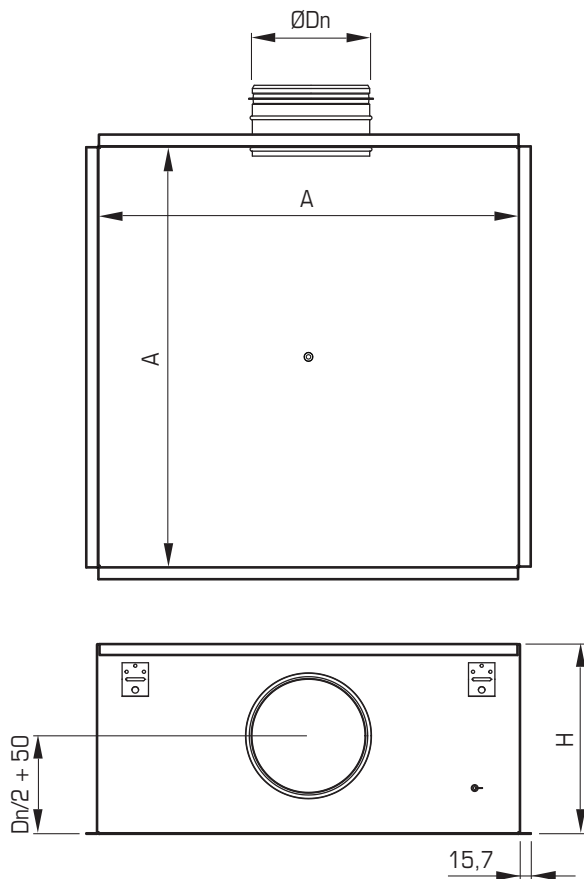
DIMENSIONS AND WEIGHT

FACE PANEL PSWB



Model	A (mm)	C (mm)	Weight (kg)
PSWB-60-1	595	544	1,3

CONNECTION BOX SKHA



Model	Ø Dn (mm)	A (mm)	H (mm)	Weight (kg)
SKHA-16-60-0-0	160	558	252	5,5
SKHA-20-60-0-0	200	558	292	6,0
SKHA-25-60-0-0	250	558	342	6,6
SKHA-31-60-0-0	315	558	406	7,4
SKHA-40-60-0-0	400	558	491	8,4
SKHA-16-60-1-0	160	558	252	5,8
SKHA-20-60-1-0	200	558	292	6,4
SKHA-25-60-1-0	250	558	342	7,0
SKHA-31-60-1-0	315	558	406	7,8
SKHA-40-60-1-0	400	558	491	9,0

GENERAL, PRODUCT CODE

CONSTRUCTION AND FUNCTION

PSWB is a silent perforated exhaust diffuser of size 600x600mm to be installed in false ceiling along with SKHA connection box. Plenum box is available in two versions: with or without sound attenuation material.

MATERIAL AND SURFACE FINISH

Both diffuser and connection box are made of galvanized steel sheet. Face panel has 51% of perforation rate. PSWB is powder-coated for a high surface finish. The standard colour is RAL 9010, 70% of gloss.

Sound attenuation lining is made of elastomeric foam based on synthetic rubber.

TECHNICAL DATA AND DIMENSIONING

The instructions for installation, adjustment and maintenance are available at www.flaktgroup.com.

PRODUCT CODE

Perforated exhaust diffuser

PSWB-aa-b

Size (aa)

60

Colour RAL (b)

1 = standard RAL 9010

X = any other colour from RAL palette

Connection box

SKHA-aa-bb-c-d

Duct connection size, cm (aa)

16, 20, 25, 31, 40

Face panel size, cm (bb)

60

Sound attenuation material (c)

0 = without

1 = with

Damper (d)

0 = without

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